KENWOOD

Listen to the Future

ADVANCED WIRELESS COMMUNICATIONS

TK-3173

Compact UHF FM Portable Radios
Conventional & Trunked

FleetSync® by KENWOOD

GENERAL FEATURES

- 4 W, 450-490 MHz
- Conventional & LTR® Zones
- 8 Character Alphanumeric Aliases
- Backlit LCD
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 3 Side PF Keys
- Orange Emergency / AUX Key
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- Encryption / ANI Board Control
- Easy Option Port (20-Pin)
- Emergency Call Features
- Emergency Man-Down Option
- QT / DQT
- DTMF Encode / Decode[1]
- Special Alert Tone Patterns[2]
- Call Key[3]
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Weather-sealed ACC Connector
- Speaker Mic Options
- Windows® Programming & Tuning[4]
- Windows® Firmware Uploading[4]
- Field Programming & Tuning
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option

CONVENTIONAL ZONES

- 128 Channels / 128 Zones[5]
- QT / DQT
- Two-Tone Decode[6]
- Single / Two-Tone Encode[6]
- Operator Selectable Tone[6]
- Single Priority Scan
- Single & Multi-Zone Scan
- List Scan
- Voice Inversion Scrambler Built-in
- VOX Ready
- Battery Saver

TRUNKED ZONES

- 250 GID / 128 Zones[5]
- Kenwood LTR® Features

FleetSync®

- PTT ID Digital ANI
- Selective Call & Group Call[7]
- Status Messaging[7]
- Emergency Status
- Caller ID Display[7]
- Short Text Messages[7]
- PC Serial Interface

Keypad model also available.

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Options

- **KNB-2SA** Ni-Cd Battery Pack (1,200mAh)
- **KNB-26N** Ni-MH Battery Pack (2,000mAh)
- **KNB-3SL** Li-Ion Battery Pack (7.4V/1950mAh)
- **KNB-40LC** Li-ion Battery Pack (7.4V/1950mAh) I.S.
- **KBP-S** Battery Case

- **KSC-25** Rapid Charger
- **KSC-30** Charger for KNB-25A and KNB-26N

- **KRA-23** UHF Low Profile Helical Antenna

- **KRA-27** UHF Whip Antenna

- **KMC-17** Speaker Microphone

- **KMC-21** Speaker Microphone

- **KEP-2** Earphone Cord Kit for KMC-17

- **KHS-1** Head Set with VOX/PTT

- **KHS-22** Head Set

- **KVC-3** Regular Rate Vehicular Charger Adapter (for KSC-30)
- **KVC-4** Rapid Rate Vehicular Charger Adapter (for KSC-25)

- **KHS-7A** Lightweight Single Muff Headset

- **KHS-BBL** 2-wire Palm Mic with Earphone (Black)

- **KHS-9BL** 3-wire Lapel Mic with Earphone (Black)

- **KLH-138** Leather Case w/Swivel Belt Loop

- **KBH-12** Belt Clip

Specifications

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Model	TK-3173
GENERAL	
Frequency Range	
Type 1	450-490 MHz
Number of Channels	
Zone	Max. 128 per Radio
Conv. Ch	Max. 128 per Zone
Trunking GID	Max. 250 per Zone
Channel Spacing	
Wide/Narrow	25 kHz/12.5 kHz
Battery Voltage	7.5V DC±20%
Battery Life (5-5-90 duty cycle, during hi-power, battery saver off)	
with KNB-25A (1200mAh)	Approx. 8 hours
with KNB-26N (2000mAh)	Approx. 12 hours
with KNB-35L (1950mAh)	Approx. 11 hours
Operating Temperature Range*	-22°F ~ +140°F (-30°C ~ +60°C)
Frequency Stability	±2.5ppm (-22°F ~ +140°F)
Antenna Impedance	50 Ω
Channel Frequency Spread	
Type 1	40 MHz
Dimensions (W x H x D), Projections not Included	
Radio Only	2-7/32 x 4-5/16 x 5/8 in. (56 x 109 x 16.6 mm)
with KNB-35L	2-7/32 x 4-5/16 x 1-1/4 in. (56 x 109 x 31.7 mm)
with KNB-25A/26N	2-7/32 x 4-5/16 x 1-1/2 in. (56 x 109 x 37.9 mm)
Weight (net)	
Radio Only	7.2 oz. (205 g) (includes supplied accessories)
with KNB-25A	14.6 oz. (415 g) [with antenna (KRA-22/23) and belt clip (KBH-12)]
with KNB-26N	16.0 oz. (455 g) [with antenna (KRA-22/23) and belt clip (KBH-12)]
with KNB-35L	12.0 oz. (340 g) [with antenna (KRA-22/23) and belt clip (KBH-12)]
FCC ID	
Type 1	ALH34713110
IC Certification	
Type 1	282D-34713110

**+14°F ~ +140°F (-10°C ~ +60°C) when KNB-26N/35L in use*

Model	TK-3173
RECEIVER (Measurements made per TIA/EIA-603)	
Sensitivity (12dB SINAD)	
Wide	0.25 µV
Narrow	0.28 µV
Selectivity	
Wide	70 dB
Narrow	65 dB
Intermodulation Distortion	
Wide	65 dB
Narrow	60 dB
Spurious Response	65 dB
Audio Output (4 Ω Impedance)	500 mW with less than 5% distortion
TRANSMITTER (Measurements made per TIA/EIA-603)	
RF Output Power	
High	4 W
Low	1 W
Spurious Response	70 dB
Type of Emission	
Wide	16KØF3E
Narrow	11KØF3E
FM HUM & Noise	
Wide	45 dB
Narrow	43 dB
Audio Distortion	Less than 5%

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.

FleetSync® is a registered trademark of Kenwood Corporation.
LTR® is a registered trademark of Transcrypt International.
All other trademarks are property of their respective owners.

ISO9001 Registered
Communications Equipment Division
Kenwood Corporation
ISO9001 certification

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
International Protection Standard				
Dust & Water Protection	IP54/55			

**To meet MIL 810 and IP grade, the 2-pin connector cover has to be connected.*

Footnotes from front:

1. *DTMF Encode: PTT ID, Emergency ANI, Auto-Dial (16 numbers); DTMF Decode: Code Squelch (3-10 digit), Selective Call (9-digit with status) Group Codes A,B, C, D & Wild Card characters) and radio Stun.*
2. *Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode.*
3. *Call Key 1 & 2: operates for 2-Tone, DTMF and FleetSync® status encode.*
4. *KPG-101D required: Windows® 98/ NT/ 2000/ Me/XP compatible; English/Spanish screen languages.*
5. *Conventional Zones: 128 Channels /128 Zones max. per radio; 128 CH max. per Zone; Trunked Zones: 250 GID/128 Zones max. per radio; 250 GID max.per Zone.*
6. *Two-Tone Decode (3 sets x 2 pairs each); Single / Two-Tone Encode (10 tones), Operator Selectable Tone (40 QT.DQT code pairs).*
7. *ID List capacity is 100 ID's; Short Text Messages are radio stored & LCD displayed; Status Message List capacity is 50.*

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20809 Kensington Blvd Lakeville, MN 55044 877-202-5060 www.advancedwireless.com
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